

AMENDMENT OF THE CLAIMS

Claim 1. (previously presented) An optical semiconductor module comprising:

a mounting member, having an element mounting surface and a contacting surface, said element mounting surface and said contacting surface extending along a reference plane intersecting a predetermined axis, said element mounting surface and said contacting surface being substantially planar, and said mounting member being a plate-like member;

a first member having a tubular portion, a first end portion and a second end portion, said tubular portion extending in a direction of the predetermined axis, said first end portion being provided at one end of the tubular portion and being mounted on said contacting surface of the mounting member, said second end portion being provided at the other end of the tubular portion, said first end portion being bonded to said contacting surface of said mounting member, and an outer edge of said first end portion being located inside of an edge of said mounting member;

an optical semiconductor element provided in the tubular portion of said first member such that an optical axis thereof is directed in a direction of said predetermined axis, said optical semiconductor element being mounted in said element mounting surface;

a second member having a tubular portion extending in a direction of the predetermined axis, said second member being mounted on the second end of said first member;

an optical fiber optically coupled to said optical semiconductor element, said optical fiber extending in the tubular portion of said second member; and

a lens held by said first member, said lens being provided between said optical fiber and said optical semiconductor element.

Claim 2. (previously presented) An optical semiconductor module according to claim 1, further comprising a ferrule accommodated in the tubular portion of said second member, wherein said optical fiber is supported by said ferrule.

Claim 3. (canceled)

Claim 4. (original) An optical semiconductor module according to claim 2, wherein said ferrule has first and second end faces, and the optical fiber extends from the first end face to the second end face of said ferrule.

Claim 5. (previously presented) An optical semiconductor module according to claim 4, further comprising a sleeve, said ferrule is inserted in said sleeve;

wherein said second member has a depressed portion provided in an inner wall surface of the tubular portion, and

wherein said sleeve is arranged in the depressed portion of said second member.

Claim 6. (previously presented) An optical semiconductor module according to claim 4,

wherein the tubular portion of said second member has first and second portions arranged in a direction of the predetermined axis,

wherein the first portion accommodates said ferrule, and

wherein the second portion is provided such that another ferrule can be inserted therein.

Claim 7. (canceled)

Claim 8. (previously presented) An optical semiconductor module according to claim 1, wherein said optical semiconductor element is a light-emitting element or a light-receiving element.

Claim 9. (previously presented) An optical semiconductor module according to claim 1, wherein said first member is secured to said mounting member at an annular connecting portion to secure said optical semiconductor element.

Claim 10. (previously presented) An optical semiconductor module according to claim 1, wherein said mounting member is included in a cylindrical shape having a diameter of not more than 4 mm and a center axis perpendicular to the reference plane.

Claim 11. (previously presented) An optical semiconductor module according to claim 4, wherein the tubular portion of said second member has first and second portions arranged in a direction of the predetermined axis,

wherein the first portion accommodates said ferrule, and

wherein the second portion is provided such that another ferrule can be inserted therein.

12. (previously presented) An optical semiconductor module according to claim 4, further comprising a sleeve, said ferrule is inserted in said sleeve;

wherein said tubular portion of said second member has first to third portions sequentially arranged in said predetermined axis;

wherein said second member has a depressed portion provided in an inner wall surface of said second portion thereof,

wherein said sleeve is provided in the depressed portion of said second member, and

wherein said inner diameter of said second portion is greater than inner diameters of said first and third portions.

Claim 13. (previously presented) An optical semiconductor module according to claim 4,

wherein the tubular portion of said second member has first and second portions arranged in a direction of the predetermined axis,

wherein the first portion accommodates said ferrule, and

wherein the second portion is provided such that another ferrule can be inserted therein.

Claim 14. (previously presented) An optical semiconductor module according to claim 1, wherein said first member is resistance-welded to said mounting member at an annular connecting portion to secure said optical semiconductor element.

15. (previously presented) An optical semiconductor module according to claim 1, wherein said mounting member includes a terminal electrode having a side surface extending in a direction of said predetermined axis; wherein said terminal electrode is connected to said optical semiconductor element; wherein said first member includes an inner wall surface extending in said direction of said predetermined axis; and wherein said inner wall surface faces said side surface of said terminal electrode.

16. (previously presented) An optical semiconductor module according to claim 1, wherein said mounting member includes a terminal electrode connected to said optical semiconductor element; wherein said terminal electrode has an inner portion projecting from said reference plane in a direction of said predetermined axis; and wherein said tubular portion of said first member surrounds said inner portion of said terminal electrode.

17. (canceled)